Kgr\ TKg

### EXPLANATION

## Surficial Deposits

Alluvial Deposits (Quaternary). Small streams and younger deposits (Qa), and older alluvial fans at range front (Qa).

Colluvial Deposits (Quaternary). Mainly cor sposed of scree and soil below Eureka Quartzite on higher slsopes and as deposits along range front.

Colluvial Talus Deposits (Quaternary). Mainly composed of angular boulders and cobbles of Eureka Quartzite in high valleys.

#### Igneous Rocks

Latite Dikes (Tertiary). Quartz poor, altered tan to buff feldspar lath-bearing. hypabyssal dikes.

Quartz-feldspar-biotite Latite Dikes (Tertiary). Altered tan to buff hypabyssal dikes.

Granite (Cretaceous?). Richmond Granite stock(Kgr) and dike (TKg).

Diorite Dikes (Mesozoic?). Hard, 0.5-m-thick black dikes.

### Paleozoic Sedimentary Rocks

Limestone (Devonian?), fine-grained thin- to thick-bedded, locally altered to marble. From Evans (1980)

Roberts Mountains Formation (Silurian). fine-grained light to dark gray laminated silty dolomitic limestone containing interlayers of thin-bedded bioclastic limestone and white to dark-gray laminated marble and skarn.

Limestone (Paleozoic). Assigned to the Ordovician Pogonip Group by Evans (1974a,b, 1980), but may also correlate with Devonian limestone in sec. 35 T.35N, R.50E, and sec. 3 T.34N, R50E.

Hanson Creek Formation (Ordovician and Silurian). Black to dark gray, thick-bedded and massive, fine-grained dolomite of Evans (1974a,b, 1980). Units in north part of sec. 3 T.34N, R. 50E are interpreted due to fault offset and differ from Evans (1974, 1980).

Eureka Quartzite (Ordovician). White to tap, thin- to thick-bedded to massive quartzite of Evans (1974a, b, 1980).

Pogonip Group (Ordovician). Thin to thick-bedded gray and white dolomite of Evans (1974). Also may locally contain Cambrian Hamburg Dolomite (Evans, 1980).

## Contact Metamorphism and Alteration

Bleaching and decarbonatization (decalcification). Local calcite veins, jasperoid and iron-staining.

Calc-silicate Rocks. Mild contact metamorphism and metasomatism. Marble, bleaching.

Skarn. Intense contact metamorphism and metasomatism. Green to white recrystallized rocks. Pyroxene, grossularite, biotite, hornblende muscovite, tale, idocrase, tremolite, scapolite. magnetite, pyrite.

Iron-staining. Tan to red limonite, geothite, hematite.

Jasperoid and jasperoid breccia. Orange, tan and maroon.

Gossan and skarn. Oxidized sulfides with maroon frothy boxworks. Local magnetite.

Strike and dip of bedding

(Note: The trace of the Richmond Mountain thrust is projected through Colluvial Deposits Qc; it predates and does not cut these deposits)

Fault (down-thrown block noted with dot)

Prospect pit

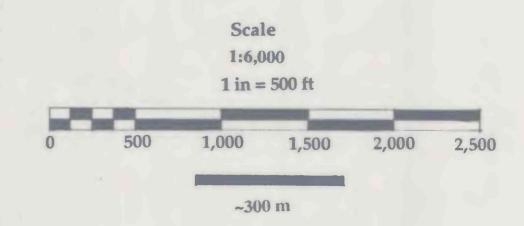
Geochemical sample (rock)

# REFERENCES

Evans, J.G., 1974a, Geologic map of the Rodeo Creek NE quadrangle Eureka County, Nevada: U.S. Geological Survey Quadrangle Map GQ-1116, scale 1:24,000.

------1974b, Geologic Map of the Welches Canyon quadrangle, Eureka County, Nevada: U.S. Quadrangle Map GQ-1117, scale 1:24,000.

------1980, Geology of the Rodeo Creek NE and Wleches Canyon Quadrangles, Eureka County, Nevada: U.S. Geological Survey Bulletin 1473, 81 p., 2 plates, scale1:24.000



# Contour interval: 5 ft

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards or with the North American Stratigraphic Code. Any use of trade, product, or firm names is for descriptive purposes only and does not imply endorsement by the U.S. Government.



LYNN WINDOW, EUREKA COUNTY, NEVADA

Stephen G. Peters 1999

Study